

## **An overview about Modicon Quantum**

Everyone is not familiar with modicon quantum automation system so if you are also one of them then this is right place to know maximum information about this. [Modicon PLC webstore](#) is a special-purpose computing system which has digital processing capabilities. This is designed for real time control in industrial as well as manufacturing applications in a modular. Some expandable features are given below:

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1. Power supply
2. Input/Output
3. Simulator (XSM)
4. Backplanes
5. I/O network interface
6. Battery
7. CableFast Cabling
8. CPU

On the Quantum local I/O backplane, there is Quantum CPU which is module and resides on same. Central processing unit is digitally operating electronic system in which programmable memory is used for the internal storage of user instructions. Some specific functions are implemented by using these instructions. Some functions are given below: -

1. Logic
2. Timing
3. Arithmetic
4. Process sequencing
5. Coupling

Digital and analog outputs are controlled by the above instructions. Different type of process is followed for different types of machines. Quantum system's local, remote and distributed I/O is controlled by the Quantum CPU which serves as bus master.

Quantum I/O modules convert signals to and from field devices to a signal level and format because these are electrical signal converters. These signals are processed by CPU, such as: -

1. Proximity switches
2. Solenoids

3. Limit switches
4. Valve actuators
5. Temperature sensors

All the input/output modules are optically secluded to the bus, ensuring safe and trouble-free operation.

Quantum battery, backplanes and cablefast cabling

1. **Battery Module:** - Quantum expert gets RAM backup power from quantum batter module.
2. **Backplanes:** - You can use local, remote and distributed I/O on all locations of quantum backplanes. Six backplanes are available and these are 2, 3,4,6,10,16.
3. **CableFast Cabling:** - The Quantum CableFast wiring system is made up of pre-wired quantum field wiring terminal strips. Special application versions are also offered.

### Quantum Network Support

You can multiple choices for opening, standard-based networking and fieldbus connectivity requirements. The networks which are supported by Quantum are: -

1. Modbus plus
2. Interbus
3. SERCOS
4. MMS Ethernet
5. TCP/IP internet
6. Remote I/O
7. Modbus
8. LonWorks
9. SY/MAX Ethernet

Modbus, a master/slave protocol, is a de facto industry standard with support from over 500 industrial suppliers. On-line programming or data acquisition applications are easily supported directly from the serial port of any computer.

Modbus can be used in either a simple point-to-point manner with a pair of devices, or in network architecture with up to 247 slave devices.

If you want to know more about this then [click now](#) on our website.

<http://www.modiconplcwebstore.com>